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 TI High-molecular-weight polyether alcohols  
 IN Behrendt, Gerhard; Schimpfle, Hans Ulrich; Wagner, Guenter; Becker, Hans  
 PA Akademie der Wissenschaften der DDR, Ger. Dem. Rep.  
 SO Ger. (East), 13 pp.  
 CODEN: GEXXA8  
 DT Patent  
 LA German  
 IC C08G065-10  
 CC 37-3 (Plastics Manufacture and Processing)  
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|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE         |
|------|----------------|------|----------|-----------------|--------------|
| PI   | DD 148957      | Z    | 19810617 | DD 1980-218778  | 19800131 <-- |
| PRAI | DD 1980-218778 |      | 19800131 |                 |              |

# CLASS

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES |
|------------|-------|------------------------------------|
| DD 148957  | IC    | C08G065-10                         |

AB High-mol.-weight alkylene oxide polymers, copolymers, and block copolymers with regular structure and narrow mol. weight distribution, suitable for manufacture of polyurethane elastomers, are prepared in the presence of a catalyst consisting of a metal salt of hexacyanoiridium(III) acid (I). Thus, 7 g I in 100 mL water and 30 mL MeO(CH<sub>2</sub>)<sub>2</sub>OMe was treated with 5.5 g ZnCl<sub>2</sub> in 16 mL water. The resulting precipitate was suspended in 90 mL water

and 70 mL MeO(CH<sub>2</sub>)<sub>2</sub>OMe, stirred, separated twice, and dried to give 95% Zn hexacyanoiridate(III) (II). Dipropylene glycol 140, propylene oxide (III) 140, and II 1 g were mixed at 40°, allowed to stand as the temperature peaked at 120° and dropped to 70°, and then treated with an addnl. 1860 g III at a rate such the temperature did not go over 80°, giving a 100% yield of dipropylene glycol polypropylene glycol ether [80408-02-2] with OH number 54.3, iodine 0.12, number-average mol. weight 1938, and mol. weight range 1600-3400, compared with values of 54.7, 0.21, 1901, and 1500-18,000, resp., for a control prepared with Zn hexacyanocobaltate catalyst.

ST polypropylene glycol manuf catalyst; propylene oxide polymn catalyst; zinc cyanoiridiate polymn catalyst; iridate cyano polymn catalyst

IT 110-71-4D, complexes with hexacyanoiridates 7646-85-7D, complexes with hexacyanoiridates 80420-04-8D, complexes

RL: CAT (Catalyst use); USES (Uses)

(catalysts, for polymerization of alkylene oxides)

IT 9082-00-2P 25322-69-4P

RL: PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process)

(manufacture of, catalysts for)

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